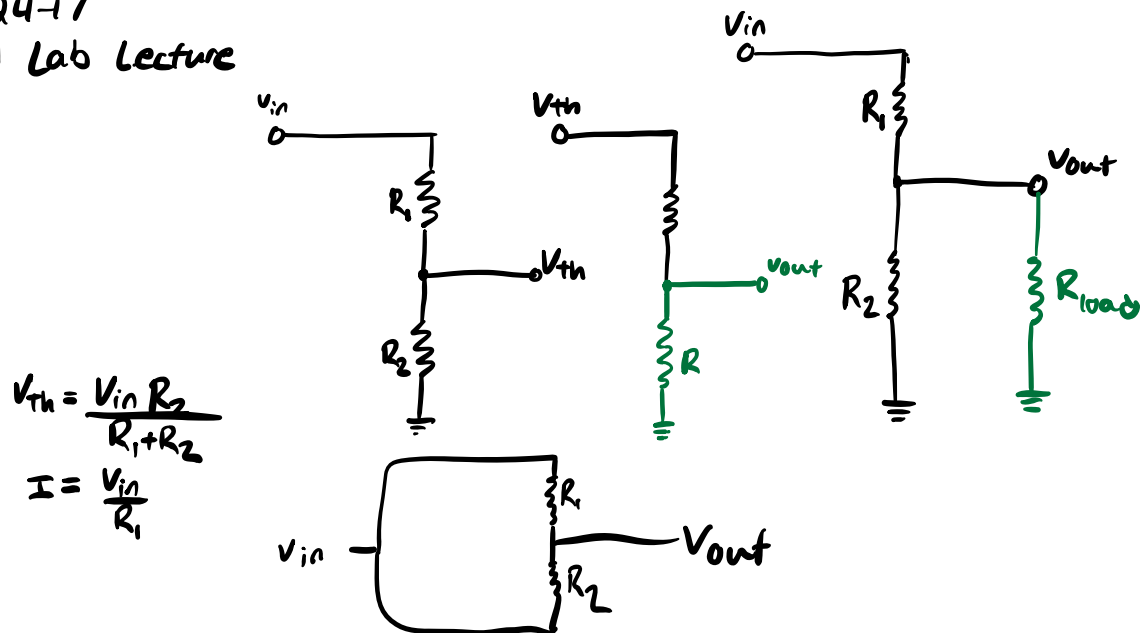
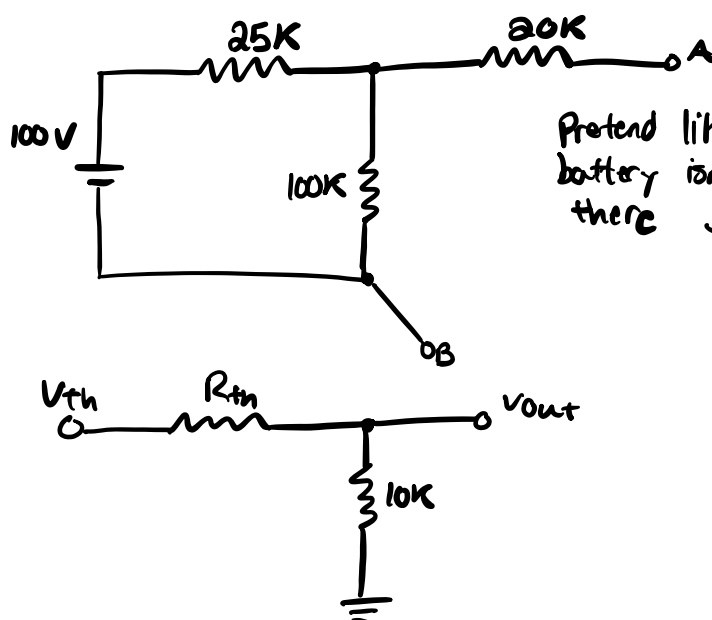


8-24-17
261 Lab Lecture



Ex:



Pretend like battery isn't there

$$V_A = 100V \cdot \frac{100K}{125K} = 80V$$

$$R_{th} = \left(\frac{1}{25K} + \frac{1}{100K} \right)^{-1} + 20K$$

$$= \left(\frac{25K + 100K}{2500K^2} \right)^{-1} + 20K$$

$$= \left(\frac{125K}{2500K^2} \right)^{-1} + 20K$$

$$R_{th} = 20K + 20K = 40K$$

$$V_{out} = \frac{10K \cdot V_{th}}{R_{th} + 10K}$$

$$V_{th} = I (R_{th} + 10K)$$